



Heavy Vehicle Technologies

U.S. Department of Energy

May 1999

Prepared for:
Office of Energy Efficiency and
Renewable Energy

Prepared by:
Office of Scientific and Technical Information
Managing Editor, Janice Pitsenbarger
Technical Editor, Larry Williams

3944

Heavy Vehicle Technologies

1.
(DOE/CE/15583-T3)
An indirect sensing technique for diesel fuel quantity control. Technical progress report, October 1–December 31, 1998. MacCarley, C.A. 26 Jan 1999. Order Number DE99001592. Source: OSTI; NTIS; GPO Dep.
2.
(DOE/ID/13406-T1)
Ultracapacitor/battery electronic interface development. Final report. King, R.D.; Salasoo, L.; Schwartz, J.; Cardinal, M. 30 Jun 1998. Order Number DE99001305. Source: OSTI; NTIS; GPO Dep.
3.
(ETDE-DE-730)
Ecologically and economically acceptable concepts for future public transportation systems. Conference report. 1998. Order Number DE99715846. Source: OSTI; NTIS (US Sales Only).
4.
(ETDE-DE-730, pp. 13-37)
From diesel engines in buses to fuel cells. Burkhart, H. (EvoBus GmbH, Mercedes-Benz Omnibusse, Mannheim (Germany)). 1998. Order Number DE99715846. Source: OSTI; NTIS (US Sales Only).
5.
(ETDE-DE-730, pp. 59-71)
Diesel engine drive systems with high-efficiency exhaust gas cleaning in public short-distance transport - operating experience and economy. Bronnenberg, P. (PESAG Aktiengesellschaft, Paderborn (Germany). Verkehrsbetriebe). 1998. Order Number DE99715846. Source: OSTI; NTIS (US Sales Only).
6.
(ETDE-DE-730, pp. 73-87)
Operating experience with natural-gas-fuelled buses and their economy. Eberwein, B. (Berliner Verkehrsbetriebe (BVG), Berlin (Germany). Omnibustchnik). 1998. Order Number DE99715846. Source: OSTI; NTIS (US Sales Only).
7.
(NEI-NO-926)
How the Guangzhou Government Can Curtail Air Pollution from Road Traffic in a Least Costly Manner. Zhao, Xu. 1998. Order Number DE99717380. Source: OSTI; NTIS.
8.
(NREL/CP-570-25315-Vol.1, pp. 391-403)
Technical and systems evaluations. Skolnik, E.G. (Energetics, Inc., Washington, DC (United States)); DiPietro, J.P. Aug 1998. Order Number DE98007507. Source: OSTI; NTIS; GPO Dep.
9.
(NREL/CP-570-25315-Vol.2, pp. 749-761)
Hydrogen-enriched fuels. Roser, R. (NRG Technologies, Inc., Reno, NV (United States)). Aug 1998. Order Number DE98007508. Source: OSTI; NTIS; GPO Dep.
10.
(NREL/CP-570-25315-Vol.2, pp. 775-786)
Savannah River bus project. Summers, W.A. (Westinghouse Savannah River Co., Aiken, SC (United States)). Aug 1998. Order Number DE98007508. Source: OSTI; NTIS; GPO Dep.
11.
(PB-99-117038/XAB)
Air quality impacts of intercity freight. Volume 1: Guidebook. Mar 1997. Source: NTIS Prices: PC A14/MF A03.
12.
(PB-99-118937/XAB)
Characterization and control of organic compounds emitted from air pollution sources. Final report. Schauer, J.J.; Kleeman, M.J.; Cass, G.R.; Simoneit, B.R.T. Apr 1998. Source: NTIS Prices: PC A16/MF A03.
13.
(PB-99-119620/XAB)
Air quality impacts of intercity freight. Volume 2: Appendices. Mar 1997. Source: NTIS Prices: PC A15/MF A03.
14.
(RM-1998-19)
Sustainable transport and 'Factor Four'. Van Veen-Groot, D.; Nijkamp, P. 1998. Source: Available from Faculty of Economics, Business Administration and Econometrics, Vrije Universiteit, De Boelelaan 1105, 1081 HV Amsterdam (Netherlands).
15.
(STEM-ALTD-98-1)
Upgrading biogas to automotive fuel quality - economy, technique, and environmental consequences. Lindberg, Anna (VBB VIAK AB (Sweden)). Aug 1998. Source: Available from: Studsvik Library, S-611 82 Nykoeping, Sweden (SEK 210).
16.
(UBA-FB-98-077)
Pollution emission of light motor trucks. Final report. Safarovic, H.; Braun, T.; Press, C.; Bartel, F. Nov 1994. Source: Available from TIB Hannover: RN 8908(98-077).
17.
(UBA-FB-98-079)
Global approach for ad-hoc measures for the reduction of pollutants from vehicles - development of the directive 70/220/EEC. Dresen-Rausch, J.; Holtei, H.; Matatko, W.

- Feb 1996. Source: Available from TIB Hannover: RN 8908(98-079).
- 18.** **Evaluation of the performance of a dual fuel engine.** Sato, Toshiharu (The Japan Gas Association, Tokyo (Japan). NGV Project Dept.); Daisho, Yasuhiro; Saito, Takeshi. pp. 25-33 of NGVs becoming a global reality. Proceedings. (1998).
- 19.** **The new generation of IVECO CNG engines.** Gaudio, R. (Business Unit Engines, Iveco Spa (Italy)). pp. 60-68 of NGVs becoming a global reality. Proceedings. (1998).
- 20.** **The strategy for mass proliferation of natural gas vehicles in Japan.** Hirase, Yusuke (Tokyo Gas Co., Ltd. (Japan). NGV Project Dept.). pp. 146-154 of NGVs becoming a global reality. Proceedings. (1998).
- 21.** **NGVs in Bavarian cities.** Hechler, H. (Bayerische Ferngas GmbH - Bayerngas, Muenchen (Germany)). pp. 157-163 of NGVs becoming a global reality. Proceedings. (1998).
- 22.** **Natural gas vehicles in major U.S. airports.** Gable, R. (Gas Research Inst., NGV Business Unit (United States)); King, T.A. pp. 165-171 of NGVs becoming a global reality. Proceedings. (1998).
- 23.** **NGV experiences in Germany.** Rodt, S. (Umweltbundesamt, Berlin (Germany)); Heine, P.; Voss, H.J.; Waldeyer, H. pp. 208-217 of NGVs becoming a global reality. Proceedings. (1998).
- 24.** **Natural gas vehicles in Poland.** Mendera, K.Z. (NGV AUTOGAS Ltd., Krakow (Poland)); Rudkowski, M.; Rudkowski, J. pp. 382-386 of NGVs becoming a global reality. Proceedings. (1998).
- 25.** **Green facts - environment topics at a glance : Fine particles.** Sep 1998. Source: Available from the Ontario Ministry of the Environment, Public Information Centre, 135 St. Clair Avenue West, Toronto, Ontario, M4V 1P5. Also available on the Internet at www.ene.gov.on.ca or through interlibrary loan from the CANMET Information Centre, 555 Booth Street, Ottawa, ON, Canada, K1A 0G1. Phone: (613) 995-4132. Fax: (613) 995-8730.
- 26.** **DI diesel engine with extremely low exhaust emissions due to exhaust recirculation and oxygen enrichment of combustion air by means of gas permeation. Phase 1. Final report.** Lepperhoff, G.; Duernholz, M.; Pischinger, S.; Baecker, H. [1998]. Source: Available from TIB Hannover: F98B1879+a.
- 27.** **CO₂ emissions from transport.** 1997. Source: OECD Publications Service, 2 rue Andre Pascal, F-75775 Paris Cedex 16, France.
- 28.** (CONF-9711153-, pp. 63-74) **State of the art and perspectives for cryogenic applications in European car manufacture.** Buenger, U. (Ludwig-Boelkow-Systemtechnik GmbH, Ottobrunn (Germany)); Kesten, M.; Wolf, J. 1997. Source: Available from TIB Hannover.
- 29.** (CONF-9711153-, pp. 332-343) **Air conditioning in commercial vehicles shown for the example of Daimler-Benz ACTROS.** Illg, M. (Behr Automobiltechnik, Kundencenter Nutzfahrzeuge, Stuttgart (Germany)); Joerg, U. 1997. Source: Available from TIB Hannover.
- 30.** (CONF-9711153-, pp. 344-360) **Current technology of bus climate control systems.** Mayer, H. (Peters und Zabransky Ingenieursgesellschaft mbH, Muenchen (Germany)). 1997. Source: Available from TIB Hannover.
- 31.** **Atmospheric emissions inventory data for heavy-duty vehicles.** Ramamurthy, R. (West Virginia Univ., Morgantown, WV (United States). Dept. of Mechanical and Aerospace Engineering); Clark, N.N. Environmental Science and Technology; 33 (1): 55-62 (1 Jan 1999).
- 32.** **The new intelligent shift from Daimler-Benz - part 2.** Paulsen, L. (Daimler Benz AG (Germany)). Automobiltechnische Zeitschrift; 100 (10): 752-760 (Oct 1998).
- 33.** **Commercial vehicle development for the next century.** Hoepke, E. Automotive Engineering Partners; (3): 6-11 (Sep 1998).
- 34.** **Emission reduction efforts in Germany. First catalytic converter for diesel engines in industrial vehicles and cogeneration systems.** Lossau, N. Umweltechnik (Zurich); (9): 14-16 (Sep 1998).
- 35.** **New components and systems at the IAA.** Automobiltechnische Zeitschrift; 100 (9): 584-588 (Sep 1998).
- 36.** **The new Intelligent shift from Daimler-Benz. Part 1.** Paulsen, L. (Daimler Benz AG (Germany)). Entwicklung LKW Europa. Automobiltechnische Zeitschrift; 100 (9): 596-602 (Sep 1998).
- 37.** **Ecological and energy balance use of an electric bus operation on Ruegen. Part 2. Ecological aspects.** Birnbreier, H. (ABB Hochenergie GmbH (Germany)). Automobiltechnische Zeitschrift; 100 (9): 616-624 (Sep 1998).

- 38.**
Sixth international natural gas vehicle meeting and exhibition held in Germany. Nippon Gas Kyokai-Shi (Journal of the Japan 51 (8): 10-12 (10 Aug 1998).
- 39.**
Electric vehicles. Watanabe, T. (Suzuki Motor Co. Ltd., Shizuoka (Japan)). Jidosha Gijutsu (Journal of the Society of Automotive 52 (8): 80-83 (1 Aug 1998).
- 40.**
Vibration, noise and riding comfort. Ishii, Y. (Honda Research and Dept., Tokyo (Japan)); Umemura, T.; Kondo, T.; Hirata, T. Jidosha Gijutsu (Journal of the Society of Automotive 52 (8): 141-147 (1 Aug 1998).
- 41.**
Use of diesel engine powered industrial trucks in working areas with restricted access. Glueck, M. (Berufsgenossenschaft der chemischen Industrie, Heidelberg (Germany). Bereich Praevention). BG; (8): 460-465 (Aug 1998).
- 42.**
Development of EGR turbocharger for heavy duty diesel engines. Ikeya, N. (Ishikawajima-Harima Heavy Industries Co. Ltd., Tokyo (Japan)); Yamada, T.; Kondo, N. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (983): 9-12 (1 May 1998).
- 43.**
Evaluating method of fuel consumption efficiency for heavy-duty trucks and buses. Noda, A. (Traffic Safety and Nuisance Research Inst., Tokyo (Japan)); Tsukamoto, Y.; Sato, Y. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (982): 37-40 (1 May 1998).
- 44.**
Variable area venturi-type exhaust gas flow meter. Yanagihara, S. (Tsukasa Sokken Co. Ltd., Tokyo (Japan)); Mochizuki, O.; Sato, K.; Saito, K. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (982): 41-44 (1 May 1998).
- 45.**
Combustion characteristics and engine performance of a natural gas engine for medium-duty trucks. Uematsu, S. (Hino Motors, Ltd., Tokyo (Japan)); Murakami, Y.; Suzuki, N.; Hikino, K. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (983): 61-64 (1 May 1998).
- 46.**
Approach to minimization of piston slap force for noise reduction. Investigation of piston slap force by numerical simulation. Suzuki, K. (Mitsubishi Motor Corp., Tokyo (Japan)); Nakashima, K. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (981): 85-88 (1 May 1998).
- 47.**
Joint effect of seat vibration to the evaluation of interior sound quality of a small diesel truck during long term exposure of interior noise at high vehicle speed. Hashimoto, T. (Seikei University, Tokyo (Japan)); Hatano, S.; Sugai, H.; Noguchi, Y.; Saito, H. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (981): 93-96 (1 May 1998).
- 48.**
Analysis of booming noise in truck cab, caused by air borne noise from engine compartment. Aikawa, J. (Hino Motors, Ltd., Tokyo (Japan)); Nemoto, T. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (981): 105-108 (1 May 1998).
- 49.**
Dynamic stress analysis of dump truck. Aoyama, S. (ES-TECH Corp., Tokyo (Japan)); Shibuya, T. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (981): 113-116 (1 May 1998).
- 50.**
Study on behavior of large scale vehicle on rutted road. Naito, M. (Nihon University, Tokyo (Japan)); Kageyama, I. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (982): 227-230 (1 May 1998).
- 51.**
Effect of seat-floor vibration to the sleepiness while long term exposure of interior noise of a small diesel truck. Effect of seat vibration level to the sleepiness. Sugai, H. (Nichias Corp., Tokyo (Japan)); Hashimoto, T.; Hatano, S.; Noguchi, Y.; Saito, H. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (981): 281-284 (1 May 1998).
- 52.**
Saarbrucken: Taking stock. Erdgas-mobil-Report; (4): 8-11 (1998).
- 53.**
Reformulated diesel fuels in Finland. Mikkonen, S. (Neste Oy, Espoo (Finland)); Aakko, P. Ilmansuoju-Uutiset; 22 (3): 13-16 (1998).
- 54.**
Willingness to pay for cleaner air. Gynther, L. (Ekono Energy Ltd, Espoo (Finland)); Haemekoski, K.; Otterstroem, T. Ilmansuoju-Uutiset; 22 (3): 23-25 (1998).
- 55.**
No emissions in the city. Hybrid vehicles - from prototype to serial production. Energie Spektrum; 13 (12): 50-51 (1998).
- 56.**
IAA Truck and Vans (Exhibition from 3rd to 10th September 1998). Tiefbau, Ingenieurbau, Strassenbau; 40 (11): 57-60 (1998).
- 57.**
On-board equipment for liquid hydrogen vehicles. Michel, F. (Technikum Worringen, Koeln (Germany)). Messer Griesheim GmbH Industriegase); Fieseler, H.; Meyer, G.; Theissen, F. International Journal of Hydrogen Energy; 23 (3): 191-199 (1998).
- 58.**
The MAN hydrogen propulsion system for city buses. Knorr, H. (MAN Nutzfahrzeuge Aktiengesellschaft, Nuernberg (Germany)); Held, W.; Pruemm, W.; Ruediger, H. International Journal of Hydrogen Energy; 23 (3): 201-208 (1998).

59. **Identification of an exhaust gas turbocharger with a Hammerstein model and neural networks.** Nelles, O. (Technische Univ. Darmstadt (Germany). Inst. fuer Regelungstechnik); Ernst, S.; Ayoubi, M.; Schumann, A.; Lachmann, K.H. Automatisierungstechnik; 46 (9): 411-419 (1998).
60. **Water-diesel fuel, a green mixture.** Gaullier, V. Sciences et Avenir; (607): 7 (Sep 1997).
61. **(CE-98.4489.019)**
A separate diesel fuel. Positive for the environment? Dings, J.M.W. Dec 1998. Source: Available from MilieuBoek, Postbus 18169, 1001 ZB Amsterdam (Netherlands).
62. **(EDOC-8167)**
Fine-particle emissions and human health. 9 Jul 1998. Source: Also available at the COE homepage www.coe.fr as EDOC8167.HTM.
63. **Mining assistance.** World Coal (Dorking); 7 (11): 28-30 (Nov 1998).
64. **Computerised earthmoving.** Chadwick, J. Mining Magazine; 179 (5): MNA12-MNA14,MNA17,MNA19,MNA21 (Nov 1998).
65. **All-composite natural gas vehicle fuel containers.** Newhouse, N. (Mitsui Construction Co. Ltd., Tokyo (Japan)); Tiller, D.; Tsunashima, T. Atsuryoku Gijutsu; 36 (4): 42-54 (25 Jul 1998).
66. **Experimental and theoretical investigation of liquid hydrogen pool spreading and vaporization.** Verfondern, K. (Forschungszentrum Juelich (Germany)); Dienhart, B. International Journal of Hydrogen Energy; 22 (7): 649-660 (Jul 1997).
67. **Oil and dependability: crisis management and prevention.** Bonocori, D. Energies et Matieres Premieres; (1): 4-5 (1997).
68. **(HPC-WR-19, pp. 139-165)**
CO₂ as refrigerant for bus air conditioning and transport refrigeration. Koehler, J. (IPEK/KONVEKTA, Haslingden, Rossendale (United Kingdom)); Sonnekalb, M.; Kaiser, H.; Lauterbach, B. 1998. Source: Available from IEA Heat Pump Centre, P.O. Box 17, 6130 AA Sittard (Netherlands).
69. **(LA-UR-98-2419)**
Variations of archived static-weight data and WIM. Elliott, C.J. (Los Alamos National Lab., NM (United States)); Gillmann, R.; Kent, P.M. [1998]. Order Number DE99001171. Source: OSTI; NTIS; GPO Dep.
70. **(MIC-98-06418/XAB)**
Fuel consumption guide: Ratings for new cars, pickup trucks and vans, 1998. ©1998. Source: NTIS Prices: PC E07/MF E01.
71. **(PB-99-109357/XAB)**
Improving pedestrian access to transit. An advocacy handbook. 19 Sep 1998. Source: NTIS Prices: PC A06/MF A01.
72. **(PB-99-110868/XAB)**
Real-time information for improved efficiency of commercial vehicle operations. Research report. Regan, A.C.; Mahmassani, H.S.; Jaillet, P. Jul 1998. Source: NTIS Prices: PC A13/MF A03.
73. **Buy economical, drive efficient. 1997 results and activities of the research and development program.** Jul 1998. Source: Available from Novem, Postbus 8242, 3503 RE Utrecht (Netherlands).
74. **SmartDriver program for heavy vehicles – Instructor's guide.** 1998. Source: Available from Natural Resources Canada, Office of Energy Efficiency, 580 Booth Street, 18th Floor, Ottawa, ON, Canada, K1A 0E4. Fax: (613) 952-8169. Internet address: <http://fleetsmart.nrcan.gc.ca> or through interlibrary loan from the CANMET Information Centre, 555 Booth St., Ottawa, ON, K1A 0G1, tel: (613) 995-4132 or FAX: (613) 995-8730.
75. **Mega hub for intermodal transport - the planning of the most advanced container terminal in the world.** Franke, K.P. (Noell Stahl- und Maschinenbau GmbH, Wuerzburg (Germany). Abt. Hafentechnik). pp. 1-133-36 of 1998. Source: Available from TIB Hannover.
76. **(CONF-980683-, pp. 129-135)**
EMAFER: electro mechanical accumulator for energy re-use. Thoelen, F.J.M. (Centre for Construction and Mechatronics, Nuenen (Netherlands)); Lommen, W. 1998. Source: Available from EESAT'98 Proceedings, EA Technology Limited, Capenhurst, Chester CH1 6ES, price 500 pound.
77. **The pollution of garbage trucks.** Bussink, M. (ed.). Efficient. Energie- en milieubeleid in de praktijk; 4 (10): 16-17 (Dec 1998).
78. **Evolution of the Super-Truck.** Walker, S. (Independent Editorial and Technical Services, Oxford (United Kingdom)). World Coal (Dorking); 7 (11): 20-26 (Nov 1998).

79. **The future of the small truck in Indonesia.** World Coal (Dorking); 7 (11): 31-34 (Nov 1998).
80. **Dome-shaped cover for tank vehicles for transport of hazardous materials. Investigations for the purpose of accident control.** Feutlinske, K. (Bundesanstalt fuer Materialforschung und -pruefung (BAM), Berlin (Germany)); Poetzsch, M.; Wuersig, A. TU; 39 (11-12): 44-47 (Nov-Dec 1998).
81. **Buyers Guide for 1999.** World Tunnelling and Subsurface Excavation; 11 (9): B1-B16 suppl. (Nov 1998).
82. **Ultra-class haul trucks.** Fiscor, S. Coal Age; 103 (10): 37-41 (Oct 1998).
83. **Innovations to customer requirements.** Walker, U. (Daimler-Benz AG (Germany). Vertrieb Transporter). Automotive Engineering Partners; (3): 64-67 (Sep 1998).
84. **Modern high-strength steels in commercial vehicle and mobile crane construction. Manufacture, processing and application.** Heller, T. (Thyssen Krupp Stahl AG (Germany). Abt. Warmgewalzte Staehle); Kern, A.; Tschersich, H.J.; Kaiser, H.J. Automobiltechnische Zeitschrift; 100 (9): 664-668 (Sep 1998).
85. **Automobile and technical regulations.** Nishiyama, M. (Fuji Electric Co. Ltd., Tokyo (Japan)); Uchida, A. Jidosha Gijutsu (Journal of the Society of Automotive 52 (8): 7-14 (1 Aug 1998).
86. **Buses.** Oba, K. (Nissan Motor Co. Ltd., Tokyo (Japan)). Jidosha Gijutsu (Journal of the Society of Automotive 52 (8): 44-55 (1 Aug 1998).
87. **Trucks.** Miki, S. (Hino Motors Ltd., Tokyo (Japan)). Jidosha Gijutsu (Journal of the Society of Automotive 52 (8): 56-66 (1 Aug 1998).
88. **Motor vehicles with special bodies.** Yamaguchi, S. (Shimewa Kogyo Co. Ltd., Kanagawa (Japan)). Jidosha Gijutsu (Journal of the Society of Automotive 52 (8): 67-71 (1 Aug 1998).
89. **Urban bus transit route network design using genetic algorithm.** Patnaik, S.B. (Indian Inst. of Tech., Madras (India). Dept. of Civil Engineering); Mohan, S.; Tom, V.M. Journal of Transportation Engineering; 124 (4): 368-375 (Jul-Aug 1998).
90. **Concrete mixer trucks for quality preserving transportation.** Higuchi, M. (Isuzu Motors Ltd., Tokyo (Japan)). Jidosha Gijutsu (Journal of the Society of Automotive 52 (6): 27-31 (1 Jun 1998).
91. **Presentation of car carrier semi-trailer and tractor.** Akiyama, H. (Fuji Heavy Industries Co. Ltd. (Japan)). Jidosha Gijutsu (Journal of the Society of Automotive 52 (6): 42-45 (1 Jun 1998).
92. **Garbage truck. To load garbage more efficiently.** Ozawa, T. (Fuji Hoory Industries Co. Ltd. (Japan)); Kuroiwa, M. Jidosha Gijutsu (Journal of the Society of Automotive 52 (6): 46-50 (1 Jun 1998).
93. **Fluid power in the US.** McGuirk, D. (National Fluid Power Association, Milwaukee, WI (United States)). Furuido Pawa Shisutemu; 29 (3): 18-21 (15 May 1998).
94. **Development of structural bonding adhesive for aluminum and application to bus body.** Onishi, T. (Hino Motors, Ltd., Tokyo (Japan)); Hamano, N. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (981): 133-136 (1 May 1998).
95. **Instance of optimum strength design of rear hub bearing for the light duty truck with dual tire.** Yukawa, H. (Isuzu Motor Ltd., Tokyo (Japan)); Kozono, K.; Kikuchihara, T.; Hiraki, S.; Mitsue, N. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (982): 151-154 (1 May 1998).
96. **Traffic state on expressway after passage control for trailers and heavy freight vehicles.** Kotani, M. (Japan Highway Public Corp., Tokyo (Japan)); Sekiya, T. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (982): 199-202 (1 May 1998).
97. **Theoretical and experimental analysis of on-center stability of large size vehicles. 3rd Report. Numerical vehicle model considering unsprung mass effects and the key point of on-center stability.** Momiyama, F. (Hino Motors, Ltd., Tokyo (Japan)); Nagae, H. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (982): 219-222 (1 May 1998).
98. **Development of wood substitutes.** Ohori, N. (Isuzu Advanced Engineering Center, Ltd., Tokyo (Japan)); Kanesaka, T. Jidosha Gijutsukai Gakujutsu Koenkai Maezurishu; (983): 225-228 (1 May 1998).
99. **Great expectations, but.... Still several years to marketability.** Energie Spektrum; 13 (12): 44-45 (1998).